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Agenda item 3.02.B.2

May 1, 2003

MEMORANDUM

To: Mr. Dalton B. Floyd, Jr., Chairman, and Members, Commission on Higher Education

From: Ms. Dianne Chinnes, Chairman, Committee on Academic Affairs and Licensing

Consideration of Request for Amendment of License
ITT Technical Institute, Indianapolis, IN, at Greenville to add B.S. in Data Communication Systems Technology (DCST), Electronic and Communications Engineering Technology (ECET), and Information Systems Security (ISS)

Summary

ITT Technical Institute <http://www.itt-tech.edu> requests approval of an amendment to its license to add the B.S. in Data Communication Systems Technology (DCST), Electronic and Communications Engineering Technology (ECET), and Information Systems Security (ISS). With the approval of the Commission and with an acceptable number of enrollments, ITT plans to implement ECET program in September 2003 and the DCST and ITT programs in December 2003.

The Commission has licensed ITT Technical Institute in Greenville since July 9, 1992. The Greenville branch currently offers a program leading to the B.S. in Technical Project Management for Electronic Commerce and three programs leading to the A.A.S. degree in 1) Computer Electronics Engineering Technology (CEET), 2) Computer Drafting and Design (CDD), and 3) Information Technology (IT) in Computer Network Systems, Multimedia, Software Applications and Programming, and Web Development. As of June 30, 2002, ITT Greenville enrolled a total of 280 students. ITT is a network of co-educational, non-denominational private for-profit career schools in 28 states operated by ITT Educational Services, Inc. (ESI), a Delaware corporation. ESI is a publicly traded corporation, meaning that its stock and, therefore, its ownership are openly traded by the general public on a recognized securities exchange. ITT Technical Institutes are operating

units of ESI and are not separately incorporated entities. ITT is accredited by the Accrediting Council for Independent Colleges and Schools (ACICS).

According to data provided by the South Carolina Employment Security Commission, computer engineers, systems analysts, desktop publishing specialists, and computer support specialists are the top four fastest growing occupations overall in South Carolina.

For admission, an individual must (1) exceed the age of compulsory school attendance; (2) possess a high school diploma or GED; (3) score a minimum of 17 on the Wonderlic Scholastic Level Exam; or score, within the immediate preceding three years, a minimum of 17 on the ACT or 400 each on both the verbal and math portions of the SAT, or have earned an associate or higher level degree from an educational institution located (A) in the U.S. that is accredited by an accrediting agency recognized by the U.S. Department of Education or (B) outside the U.S. that is accredited or similarly acknowledged by an agency deemed acceptable to the school in its discretion; (4) pass an individual interview with the registrar of the school, if requested.

The student must have obtained an overall cumulative grade point average of 2.0 on a 4.0 scale in all transfer courses. Not more than 90 quarter credit hours may be transferred from a two-year institution. Tuition is $347 per credit hour.

Faculty must have completed at least 18 graduate semester hours in the teaching discipline and must hold at least a master's degree or the minimum of the master's degree with a major in the teaching discipline. The chief academic officer, the department chairpersons, and an appropriate number of faculty members hold terminal degrees. Each degree must be from an institution accredited by an accrediting body recognized by the U.S. Department of Education. ITT Greenville currently employs 12 full-time and eight part-time faculty members.

Students may complete the upper-division requirements of their program in a minimum of six quarters. The school projects that it will enroll 15 students at Greenville in the first quarter. The programs are two-plus-two designed so that graduates from one of the associate's degree programs ITT offers (or a similar program from another institution) may transfer into a B.S. degree program. Students may also meet the lower-division requirements through transfer of coursework rather than transfer of an associate's degree.

ITT Greenville is located in the Patewood Business Center off I-385. The school occupies approximately 22,065 square feet of space housing five classrooms and five laboratories, administrative offices, student lounges, and the library. The Library

Resource Center currently occupies 606 square feet of space, and the institution has a full-time librarian, competent administrative and student services staff, adequate space, equipment, and instructional materials. Additional resources are being acquired to support the TPMEC program.

B.S. in Data Communication Systems Technology (DCST)

The proposed DCST program prepares students to design, deploy, and manage data communication systems and infrastructures. Courses are designed to address challenges in understanding and applying various solutions to help user organizations achieve their business goals with effective use of data communication technologies of choice. The technical content focuses on theories and applications of various popular data communication technologies and platforms. The curriculum builds upon topics of networking and internetworking standards and protocols, routing, switching, capacity planning, traffic engineering, web technologies, network service integration, and various configurations that enable desired functions in given systems. Graduates of this program may pursue entry-level positions such as systems administrator, network administrator, systems engineer, network engineer, system analyst, network analyst, system specialist and network specialist.

ITT estimates that it will enroll 15 students in the first class.

B.S. in Electronic and Communications Engineering Technology (ECET)

The proposed ECET program prepares students for career opportunities in a variety of entry-level positions in fields involving electronics engineering technology and communications systems. Courses offer an expansive foundation in electronic circuitry and communications engineering technology through the study of subjects such as circuit analysis, circuit design, data and network communications, and digital communications in the presence of noise. Graduates of the ECET program may begin to pursue career opportunities in a variety of entry-level positions such as electronics engineering technologist, electronics engineering assistant, engineering sales/service representative, computer systems technologist, industrial systems technologist, technical consultant, telecommunications technician, communication systems installer, field service representative, engineering technician or research technician.

ITT estimates that it will enroll 20 students in the first class.

B.S. in Information Systems Security (ISS)

The proposed ISS program prepares students for security systems needs analysis, design, implementation, monitoring and countermeasures, and ongoing administration. Students will study the essentials of information security and the security aspects of common information technology platforms. Students will be exposed to techniques used to deploy and manage security systems and configure security solutions. Graduates of this program may begin their careers in a variety of entry-level positions, involving information systems security such as network/security administrators or security systems technologists.

ITT estimates that it will enroll 15 students in the first class of each program. The attached chart shows the program flow of the associate's programs to the bachelor's programs.

Recommendation

The staff suggests that the Committee on Academic Affairs and Licensing commend favorably to the Commission an amendment to the license of ITT Technical Institution to offer a programs leading to the B.S. degree in Data Communication Systems Technology (DCST) for implementation in December 2003, Electronic and Communications Engineering Technology (ECET) for implementation in September 2003, and Information Systems Security (ISS) for implementation in December 2003.

CHE Recommendation

The Committee on Academic Affairs and Licensing will consider this item at its meeting on April 30, 2003, and will make its recommendation to the Commission on May 1, 2003.

A.A.S. Degrees		Quarter Credit Hours		
Course Number	**Course**	**DCST**	**ECET**	**ISS**
EG351	Social Psychology			4
EG360	Introductory Calculus	4	4	
EG371	Research Methods	4	4	4
EG372	Written Analysis	4	4	4
EG381	Statistics	4		4
EG452	Economics and Change	4	4	4
EG461	Ethics and Technology	4	4	4
EG462	Contemporary World Culture	4	4	4
EG481	Environmental Issues	4	4	4
ET375	C Programming in Linux		4	
ET445, 446	Advanced Circuit Analysis I, II		8	
ET455, 456	Digital Communication Systems I, II		8	
ET475, 476	Electronic Circuit Design I, II		8	
IS311	Internetworking Infrastructure and Operations			4
IS312	Information Security Essentials			4
IS313	Software Project Management Essentials			4
IS314	Security Architecture of Common IT Platforms	4		4
IS315	IS Risk Management and Intrusion Detection			4
IS316	Fundamentals of Network Security, Firewalls and VPNs			4
IS317	Hacker Techniques, Tools and Incident Handling			4
IS318	Info Security Perspective on Intranet, Internet, E-Commerce Infrastructure			4
IS411	Security Policies and Implementation Issues			4
IS413	Auditing E-Commerce Systems and IT Infrastructure			4
IS414	User Authentication Systems and Role-Based Security			4
IS415	System Forensics Investigation and Response			4
IS416	Securing Windows Platforms and Applications			4
IS418	Securing Linux Platforms and Applications			4
IS421	Legal and Security Issues			4
IT340	Communications Cabling	8	8	
IT342, 343	Data and Network Communications I, II	4	4	
IT350	Modern Wireless Communications	4	4	
IT370. 371	Advanced Routing and Switching I, II	8		
IT390	Business Database Administration	4		
IT400	Systems Analysis	4		
IT410	Web Technology	4		

IT412	Voice and Data Integration	4		
	Capstone Project	4	4	4
TM380	Advanced Topics in Technical Mathematics	4	4	
TM420	Technical Calculus		4	
	Lower-division core courses in technical or business applications	36	36	30
	Lower-division general education (math, physics, oral and written communications, sociology, and history of art and design)	24	26	24
	Lower-division electives	36	34	30
	Curricula Quarter Hour Totals	**180**	**180**	**180**

ITT Technical Institute
Program flow—Associate's to Bachelor's Degrees